

*Indian Journal of Mycology
and
Plant Pathology*

VOLUME 9, 1979

CONSISTING OF I-VII + 290 PAGES

TITLE INDEX

VOLUME 9, NUMBER 1, 1979

JANUARY-JUNE

Obituary Shri P. P. Singhal...	i
Characteristics of an isolate of <i>Sclerotium rolfsii</i> on ragi—Avdhesh Narain and S.K. Mishra	1
Control of charcoal rot of muskmelon fruits—Rama S. Singh and J. S. Chohan	5
Studies on the physiology of mushroom fungi, <i>Volvariella diplasia</i> and <i>V. esculenta</i> —D.K. Chakravarty and A. K. Malick	9
Effect of mechanical inoculation of rye earheads at different developmental stages on the yield and quality of commercial ergot—K.P. Singh and A. Husain	13
Contribution to our knowledge of Ascomycetes of India—S.T. Tilak and U. K. Talde	17
Comparative physiological studies on sporulation and colour of culture filtrates of six species of <i>Helminthosporium</i> from <i>Sorghum vulgare</i> —S.C. Pandey and T.N. Shukla	22
Powdery mildew diseases of some crucifers from Jammu and Kashmir state—Arun Kumar Sharma	29
Control of yellow rust of barley by fungicides—K. B. Sharma and R. B. L. Gupta	33
Production of pectolytic and cellulolytic enzymes in vivo and in vitro by <i>Phytophthora nicotianae</i> var. <i>parasitica</i> causing fruit rot of <i>Psidium guajava</i> —G. Prasad, K.S. Bhargava and R.S. Mehrotra	36
Seed borne mycoflora of arhar (T-21), effect of culture filtrates of some isolates on seed germination and fungicidal treatment—Kamal and A.K. Verma	41
Meteorological factors associated with the lesion development of bacterial blight of rice—A. Premalatha Dath, S.Y. Padmanabhan and S. Devadas	46
Some aspect of seed borne infection of <i>Alternaria brassicae</i> in rape and mustard cultivars in the Punjab—A.S. Chahal and M.S. Kang	51
Aspergilli from soils of Gorakhpur. IX. Edaphic factors and distribution of Aspergilli in four soil types—Kamal, M. L. Gupta and P. Kumar	56
Studies on Aspergilli from soils of Gorakhpur. VII!. Distribution in four soil types as against plant cover—Kamal, M.L. Gupta and P. Kumar	66
On the chemical control of black dot root rot disease of egg plant caused by <i>Colletotrichum atramentarium</i> under laboratory condition—Abdul Hasan, Abrar M. Khan, S.K. Saxena, M. W. Khan and Abdul Rashid	75

PHYTOPATHOLOGICAL NOTES

Chemical control of Alternaria leaf spot of sunflower—J.M. Agrawat, S. J. Mathur and H. P. Chippa	79
Phytophthora leaf blight of <i>Costus</i> in India—Abdul Sattar, M. Alam, K. P. Singh and A. Husain	81
Phytophthora root rot of <i>Atropa belladonna</i> in Kashmir valley—R. N. Thakur and B.K. Bhat	81
<i>Helminthosporium yamadii</i> on <i>Panicum maximum</i> and <i>P. antidotale</i> hitherto unrecorded from India—Om Prakash	83
Screening of sunflower germplasm against <i>Alternaria helianthii</i> —J. M. Agrawat, H. P. Chhipa and S. J. Mathur	85
Rhizoctonia disease of <i>Atropa</i> and <i>Salvia</i> —new to India—A. D. Sharma and C. L. Jandaik	86
On sclerotial rot of <i>Nigella sativa</i> and Alternaria leaf spot of <i>Annona squamosa</i> —new to India—Kamal and G. Chandra	88
Metabolic changes due to watermelon mosaic virus infection in bottle gourd fruits—R. Singh, H. C. Singh and R. Gangulee	89
Evaluation of barley varieties against covered smut (<i>Ustilago hordei</i>) in Rajasthan—R. B. L. Gupta	91
Two new hosts of <i>Oidioopsis taurica</i> —S.N. Sachan and M.R. Sharma	92
Cellulose utilizing ability of some microfungi from decaying stems of <i>Cassia tora</i> —U. S. Mishra and S.C. Gupta	93
In vitro effect of certain nematicides and weedicides on <i>Corticium sasakii</i> —A. Prema-latha Dath and Arati Swain	95
Occurrence of black point on triticales and effect of certain agronomic practices on its incidence—A.P. Sinha and A. Singh	97
Aerial infection of <i>Pythium aphanidermatum</i> and <i>Corticium sasakii</i> on French bean in Meghalaya—Satyabrata Maiti and Harbans S. Sahambi	99
A new leaf blight disease of <i>Tephrosia purpurea</i> in India—R. S. Kanaujia and Raj Kishore	100
Observation on a virus disease of coffee senna—B. R. Singh, R. B. Singh, H. C. Singh and R. Gangulee	101
A note on the efficacy of systemic fungicides against loose smut of wheat—B. Barman and A.K. Roy	102
Source of resistance against bacterial blight of guar (<i>Cyamopsis tetragonoloba</i>)—S.S. Chahal, M.S. Sohoo and K.S. Gill	103
Cultural and physiological studies with sunflower isolate of <i>Sclerotium rolfsii</i> —S. L. Sharma and B. R. Kaushal	105
A new leaf spot disease of peach (<i>Prunus persica</i>)—R.L. Madaan, L.S. Suhag and P. C. Gupta	108

Physiological studies on <i>Myrothecium roridum</i> inciting fruit rot of tomato—S. C. Gaur and V.N. Pathak	109
Effect of culture filtrate of <i>Rhizoctonia solani</i> on egg hatch and larval mortality of <i>Meloidogyne incognita</i> —H.K. Chhabra, Inderjit Singh and A. S. Sidhu	111
Comparative efficacy of fungicides for the control of sooty blotch and flyspeck diseases of apple—M. R. Kondal and A.K. Dwedi	113
Effect of oil cakes extract on the hatching of root-knot nematode, <i>Meloidogyne incognita</i> Inderjit Singh, S. K. Sharma and P.K. Sakhuja	115
Heavy metal and vitamin requirements of <i>Pythium aphanidermatum</i> —G. S. Rawla, Amar Singh and Surjit S. Saini	116
Studies on a leaf-curl disease of China-rose in Marathwada—V.R. Mali	119
A note on the varietal reaction of hybrid Tea roses to powdery mildew—G.D. Deshpande	120
Screening of bean varieties for resistance to <i>Xanthomonas phaseoli</i> —D. Y. Khandale and S. S. Kore	121
Some physiological factors influencing growth and pycnidial formation of <i>Phaeophleospora indica</i> —S.S. Kore and M. A. Kazi	122
Natural infection of bean (<i>Phaseolus vulgaris</i>) by mung bean yellow mosaic virus—R. N. Singh	124
Effect of cowpea tobacco mosaic virus (TMV-Cs) infection on growth, nodulation and nitrogen fixation in cowpea—V.R. Mali, M.P. Diwakar add F. S. Patil	126
Resistance of triticale germplasm to Indian races of brown rust—R. Shukla, R. K. Uttam and S. C. Panday	128
Effect of sucrose concentration on growth and sporulation of three species of <i>Colletotrichum</i> pathogenic on chillies—M. L. Verma	130
A strain of <i>Gloeosporium ampelophagum</i> causing grapevine anthracnose—S. S. Kore and P.N. Gurme	132
Growth studies on <i>Colletotrichum lagenarium</i> causing anthracnose of bottlegourd—R. B. Singh and J. P. Jain	135
Studies on the physiology of growth of <i>Alternaria solani</i> —P.D. Gemawat and S.K. Ghosh	138
Workshop on Phytophthora diseases of tropical cultivated plants	140
Phytopathological news	140

Role of on-season, post harvest and pre leaf fall sprays in the control of apple scab (<i>Venturia inaequalis</i>)—G. K. Gupta	141
Studies on aspergilli from soils of Gorakhpur. X. Seasonal distribution in four soil types— Kamal, M. L. Gupta and P. Kumar	150
On the fungicidal control of anthracnose disease of arhar—Abul Hasan and Abrar M. Khan	156
Phenolics and cell wall degrading enzymes in <i>Sclerotinia</i> infection of resistant and susceptible plants of <i>Brassica juncea</i> —J. N. Rao, R. P. Singh and V. C. Saxena	160
Severe mosaic of winter cherry—Sarjeet Singh and B. B. Nagaich	166
Fungi of Gorakhpur VII—Kamal and R. P. Singh	170
Fungi of Gorakhpur VIII—Kamal and S. Singh	173
Studies on the characterization of a mottle disease of chilli (<i>Capsicum annuum</i>) in the Punjab—K. S. Sandhu and J. S. Chohan	177
Electron microscopic studies on euonymus mosaic virus (EMV)—V. R. Mali and V. Bojnansky	183
Nature and rate of spread of urdbean leaf crinkle disease under field conditions— S. P. S. Beniwal, S. J. Kolte and Y. L. Nene	188
Indexing results of mosambi sweet orange decline on rough lemon root stock in Marathwada—V. R. Mali	193
Fungicidal spray schedule for the control of Alternaria blight of wheat—V. K. Singh P. C. Verma and B. M. Khanna	200
Histopathology of papaya leaves naturally infected with two papaya viruses—Kusum Mathur and D. D. Shukla	205
Inhibition of cowpea mosaic viral infection by surfactants—K. N. Rao and S. P. Ray- chaudhuri	209
Some post-harvest diseases of brinjal in India—P. Laxminarayana and S. M. Reddy	214
A bacterial leaf spot disease of bean (<i>Dolichos lablab</i>) in Parbhani, Maharashtra— S. S. Kore and D. Y. Khandale	220
The genus <i>Tricharina</i> in India—K. S. Thind and S. C. Kaushal	225
Variation in aggressiveness of <i>Xanthomonas translucens</i> f. sp. <i>oryzicola</i> , the incitant of bacterial leaf streak of rice—C. Seshagiri Rao and S. Devadath	231
Nutritional requirements of <i>Alternaria cucumerina</i> causing blight disease of cucurbits— G. L. Khandelwal and R. Prasada	237

PHYTOPATHOLOGICAL NOTES

Tagar (<i>Tabernaemontana coronaria</i>)—A new host of jasmine chlorotic ringspot virus— V. R. Mali	242
A new root rot of sesame (<i>Sesamum indicum</i>)—S. N. Bhargava and D. N. Shukla	244
Fungi of Gorakhpur-IX—Kamal, S. Singh and R. P. Singh	245

TITLE INDEX

Foot and stem rot of balsam— S. N. Bhargava, D. N. Shukla and Narendra Singh	247
Chemical control of Cercospora blight of okra— S. S. Sokhi, J. S. Jhooty, S. S. Bains and H. S. Rewal	247
A new fruit rot of plum (<i>Prunus domestica</i>)— S. Maiti, H. S. Sahambi and S.P. Ghosh	249
A simple method for determining fungitoxicity of vapours of plant extracts—S.B. Misra and S. N. Dixit	250
The field reaction of powdery and downy mildews in lathyrus genetic stock— V. G. Narsinghani and S. M. Kumar	252
Bunchy top of banana in Uttar Pradesh—R. N. Singh	253
Seeds mycoflora from flood affected grain samples of east U. P.— G. P. Singh and Thakur Ji	255
Estimation of losses due to anthracnose of sorghum— Ashok Mishra and Babu Singh Siradhana	257
Two new apothecial fungi— V. G. Rao and A. W. Subhedar	258
Different levels of Alternaria blight in relation to grain yield of brown sarson— A. S. Chahal and M. S. Kang...	260
Some graminicolous species of <i>Helminthosporium</i> occurring in India— R. A. Singh and A. P. Misra	262
Control of yellow rust of wheat by single spray of fungicides—A. Singh and A.N.Tewari	264
Varietal reaction of capsularis jute against mosaic disease— Thakur Ji, Hira Lal and S. P. Singh	267
Chlorophyll and carbohydrate contents of a virus diseased pigeon pea plant— R. Singh and T. P. Mall	269
A new leaf spot disease of <i>Cymbopogon pendulus</i> — M. Alam, K. P. Singh and A. Husain	272
Chemical control of Alternaria leaf spot of sunflower— H. K. Saksena, H. P. Shukla, P. N. Singh and S. S. L. Srivastava...	274
Reaction of some hot pepper (<i>Capsicum annuum</i>) lines to cucumber mosaic virus— Jarnail Singh and M. R. Thakur	276
In vitro production of pectinolytic and cellulolytic enzymes by <i>Colletotrichum lagenarium</i> , the causal organism of bottlegourd anthracnose— R.B. Singh and J.P. Jain	277
Annual recurrence of rose rust in Khamnor area of Rajasthan and its control by fungicides— M. L. Jain, B. P. Chakravarti and B. B. L. Thakore	279
A new leaf spot disease of mung caused by <i>Drechslera halodes</i> — Kusum Dwivedi and P. Shukla	281
<i>Dioscorea alata</i> , a new host of <i>Curvularia eragostidis</i> — A Borborua and G. Medhi	282
New species of white-rust and sooty mold fungi— A. N. Sudarsan Rao	283
Host range and varietal reactions of top necrosis virus of pea (<i>Pisum sativum</i>)— A. N. Roy and M. N. Gupta	284
New Books	288
Index (Volume 9)	i-vii

AUTHOR INDEX

Author	Page	Author	Page
Abul Hasan	13, 81, 75, 272	Jain, M. L.	279
Agrawat, J. M.	79, 85	Jandaik, C. L.	86
Alam, M.	81, 272	Jhooty, J. S.	247
Barman, B.	102	Kamal	41, 56, 66, 88, 150, 170, 173, 245
Bains, S. S.	247	Kanaujia, R. S.	100
Beniwal, S. P. S.	188	Kang, M. S.	51, 260
Bhargava, K. S.	36	Kaushal, B. R.	105
Bhargava, S. N.	244, 247	Kaushal, S. C.	225
Bhat, B. K.	82	Kazi, M. A.	122
Bojnansky, V.	183	Khan, M. Abrar	75, 156
Borborua, A.	282	Khan, M. W.	75
Chahal, A. S.	51, 177	Khanna, B. M.	200
Chahal, J. S.	177	Khandale, D. Y.	121, 220
Chahal, S. S.	103	Khandelwal, G. L.	237
Chakravarti, B. P.	279	Kolte, S. J.	188
Chakravarti, D. K.	9	Kondal, M. R.	113
Chandra, G.	88	Kore, S. S.	121, 122, 132, 220
Chhabra, H. K.	111	Kumar, P.	56, 66, 150
Chippa, H. P.	79, 85	Kumar, S. M.	252
Chohan, J. S.	5, 177	Madaan, R. L.	108
Dath, A Premalatha	46, 95	Maiti, Satyabrata	99, 249
Deshpande, G. D.	120	Mali, V. R.	119, 126, 183, 193
Devadath, S.	46, 231	Malick, A. K.	9
Diwakar, M. P.	126	Mall, T. P.	269
Dixit, S. N.	250	Mathur, Kusum	205
Dwedi, A. K.	113	Mathur, S. J.	79, 85
Dwivedi, Kusum	281	Medhi, G.	282
Gangulee, R.	89, 101	Mehrotra, R. S.	36
Gaur, S. C.	109	Mishra, A.	257
Gemawat, P. D.	138	Mishra, S. K.	1
Ghosh, S. K.	138	Mishra, U. S.	93
Ghosh, S. P.	249	Misra, A. P.	262
Gill, K. S.	103	Misra, S. B.	250
Gupta, G. K.	141	Nagaich, B. B.	146
Gupta, M. L.	56, 66, 150	Narain, Avdesh	1
Gupta, M. N.	284	Narsinghani, V. G.	252
Gupta, P. C.	108	Nene, Y. L.	188
Gupta, R. B. L.	33, 91	Om Prakash	83
Gupta, S. C.	93	Padmanabhan, S. Y.	46
Gurme, P. N.	132	Pandey, S. C.	22, 128
Hira Lal	267	Pathak, V. N.	109
Jain, J. P.	135, 277	Patil, F. S.	126

AUTHOR INDEX

Author	Page	Author	Page
Prasad, G.	36	Singh, G. P.	256
Prasada, R.	297	Singh, H. C.	101
Raj Kishore	100	Singh, H. L.	89
Rashid, Abdul	75	Singh, Jarnail	276
Rao, J. N.	160	Singh, K. P.	13, 81, 272
Rao, K. N.	209	Singh, Narendra	247
Rao, V. G.	258	Singh, P. N.	274
Rawla, G. S.	116	Singh, R.	89, 269
Ray Chaudhuri, S. P.	209	Singh, R. A.	262
Reddy, S. M.	214	Singh, R. B.	101
Rewal, H. S.	247	Singh, R. B.	135, 279
Roy, A. K.	102	Singh, R. N.	124, 253
Roy, A. N.	284	Singh, R. P.	160, 170, 245
Sachan, S. N.	92	Singh, Sarjeet	166
Sahambi, H. S.	99, 249	Singh, S.	173, 245
Saini, Surjit S.	116	Singh, S. P.	267
Sakhuja, P. K.	115	Singh, S. Rama	5
Saksena, H. K.	274	Singh, V. K.	200
Sandhu, K. S.	177	Sinha, A. P.	97
Sattar, Abdul	81	Siradhana, Babu Singh	257
Saxena, S. K.	75	Sahoo, M. S.	103
Saxena, V. C.	160	Sokhi, S. S.	247
Seshagiri Rao, C.	231	Srivastava, S. L.	274
Sharma, A. D.	86	Subhedar, A. W.	258
Sharma, A. K.	29	Sudarsan Rao, A. N.	283
Sharma, K. B.	33	Suhag, L. S.	108
Sharma, M. R.	92	Swain, Arati	95
Sharma, S. K.	115	Talde, U. K.	17
Sharma, S. L.	105	Tewari, A. N.	264
Shukla, D. D.	205	Thakore, B. B. L.	279
Shukla, D. N.	244, 247	Thakur Ji	225, 262
Shukla, H. P.	274	Thakur, M. R.	276
Shukla, P.	281	Thakur, R. N.	82
Shukla, R.	128	Thind, K. S.	225
Shukla, T. N.	22	Tilak, S. T.	17
Sidhu, A. S.	111	Uttam, R. K.	128
Singh Amar	116	Verma, A. K.	41
Singh, A.	97, 264	Verma, M. L.	130
Singh, B. R.	101	Verma, P. C.	200

PATRON

OBITUARY



SHRI P. P. SINGHAL

Shri P. P. Singhal, a noted industrialist, left for his heavenly abode on 4th July, 1979 at Bombay following a heart attack at the age of 59. He left behind him his wife, three sons, grand children and a large number of friends and admirers.

Shri Singhal was born on 17th February, 1920 at Allahabad. He graduated with distinction from the University of Allahabad and was awarded a gold medal for standing first in M. Sc. (Chem.). Besides a brilliant educational carrier, he was a good sportsman and served the University as captain in aquatics (1939-42).

He started his business carrier in 1951 by establishing a firm under the name ' Mewar Oil Mills ' at Udaipur in Rajasthan. In 1961, he entered into pesticide industry and established ' Pesticide India ' as a formulating unit for various insecticides and fungicides and later introduced the manufacture of technical grade for some pesticides. His business interests were diversified and included mining exports and imports and sales of imported items like foreign manufactured pesticides and Soviet Computers.

He was gifted with encyclopaedic knowledge of chemistry, critical observation for right, sharp memory and planning eye. He well utilized these in the phenomenon development of a small pesticides formulating unit into a present much diversified concern. For these obvious reasons he was elected as Vice-President in 1964-67 and President twice (1967-68 and 1978-79) of Pesticide Association. He worked as member as Rajasthan Planning Board, Industrial Advisory Board, Mineral Advisory Board, State Technical Education, and was Founder President of Udaipur Industries and Commerce Associations. He was associated with a number of social and cultural institutions. He served as President of famed Bhartiya Lok Kala Mandal, Udaipur since 1960, Governor of Rotary District 305 in 1973-74 and member of several trust and education institutions.

He was a man of ideals and amicable manners and also a voracious reader and powerful speaker in both english and hindi. His wide study on Indian culture and religion has no wonder left an indelible impression on all those who met him.

Shri Singhal always took great interest in academic matters. He was actively associated with the development of the ' Society of Mycology and Plant Pathology ' since its inception. He has the distinction of becoming the first Patron of the society and was instrumental in the success of two all India symposia on ' Plant-Disease Problems ' held at Udaipur and Jaipur in 1975 and 1978, respectively. Not only this, he instituted an annual ' Pesticide India Award ' for the best paper on ' Fungicides in Plant Disease Control ' with a view to encourage the scientists and promote interest in this important field of immediate concern for the entire society.

Shri Singhal not only left deep impression of his great personality on the minds of his friends but he also firmly established certain traditions of scholarship. He will not only be missed by his family but also by a large number of friends and admirers. No doubt his passing away is an irreparable loss but he would always be remembered and occupy a place of honour amongst his friends and well wishers.

R. Prasada

